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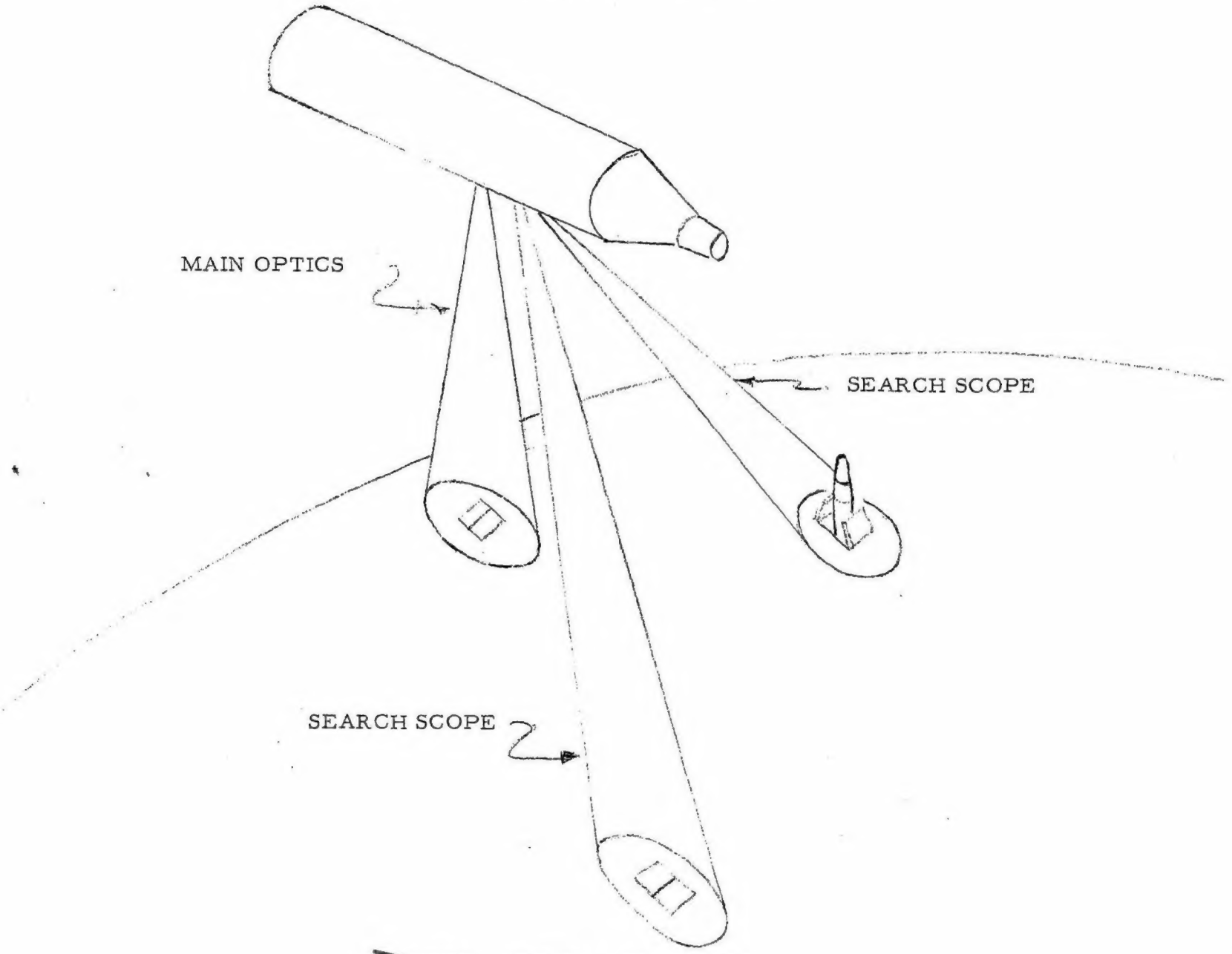
MANNED ACQUISITION OF ACTIVE TARGETS



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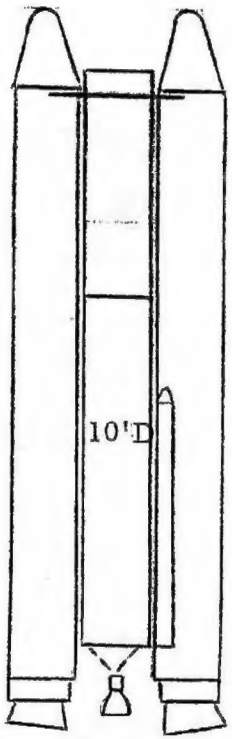
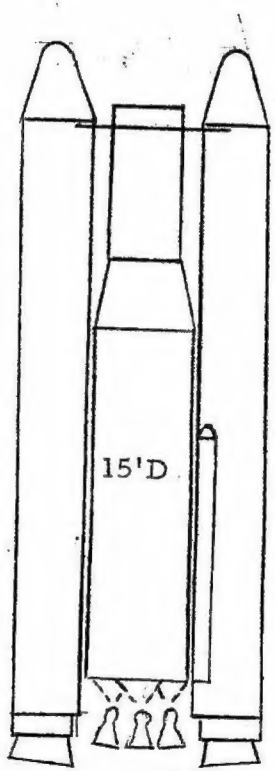
MOL LAUNCH VEHICLES

TIII C (U)
32.8K# REF. P/L



TIII C - LDC 1
44.0K# REF. P/L



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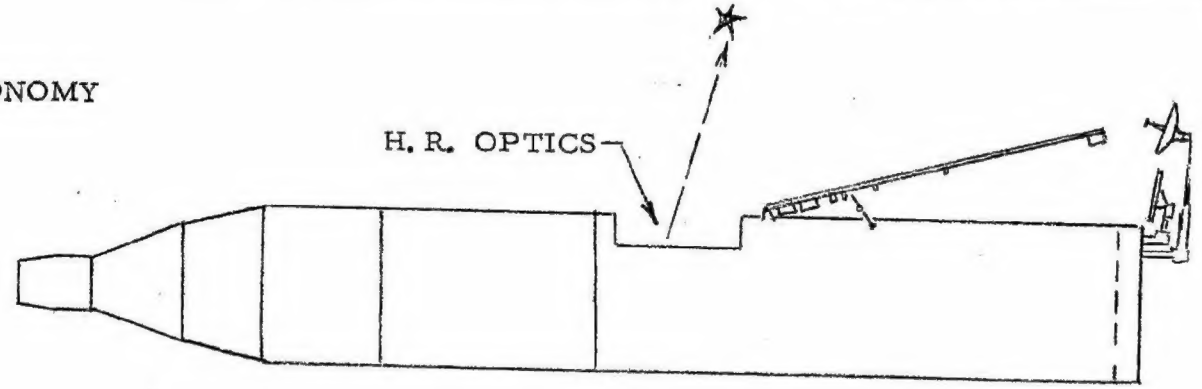
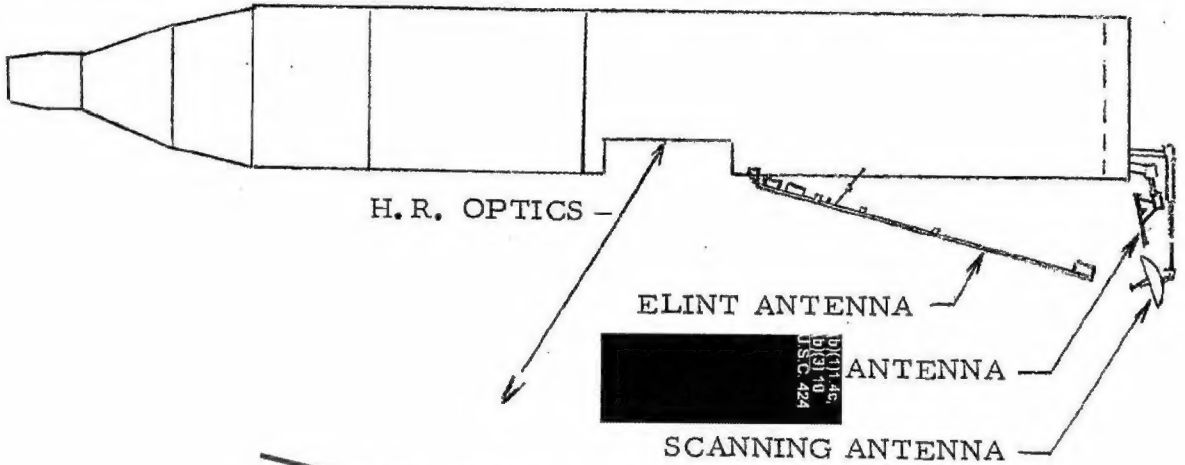
MULTI-MISSION GROWTH APPROACHES (APPLICABLE TO INTEGRAL OR RENDEZVOUS)

- ASTRONOMY



- ELINT, [redacted] (b)(1) 1.4c, (b)(3) 10 U.S.C. 424 AND H. R. PHOTOGRAPHY



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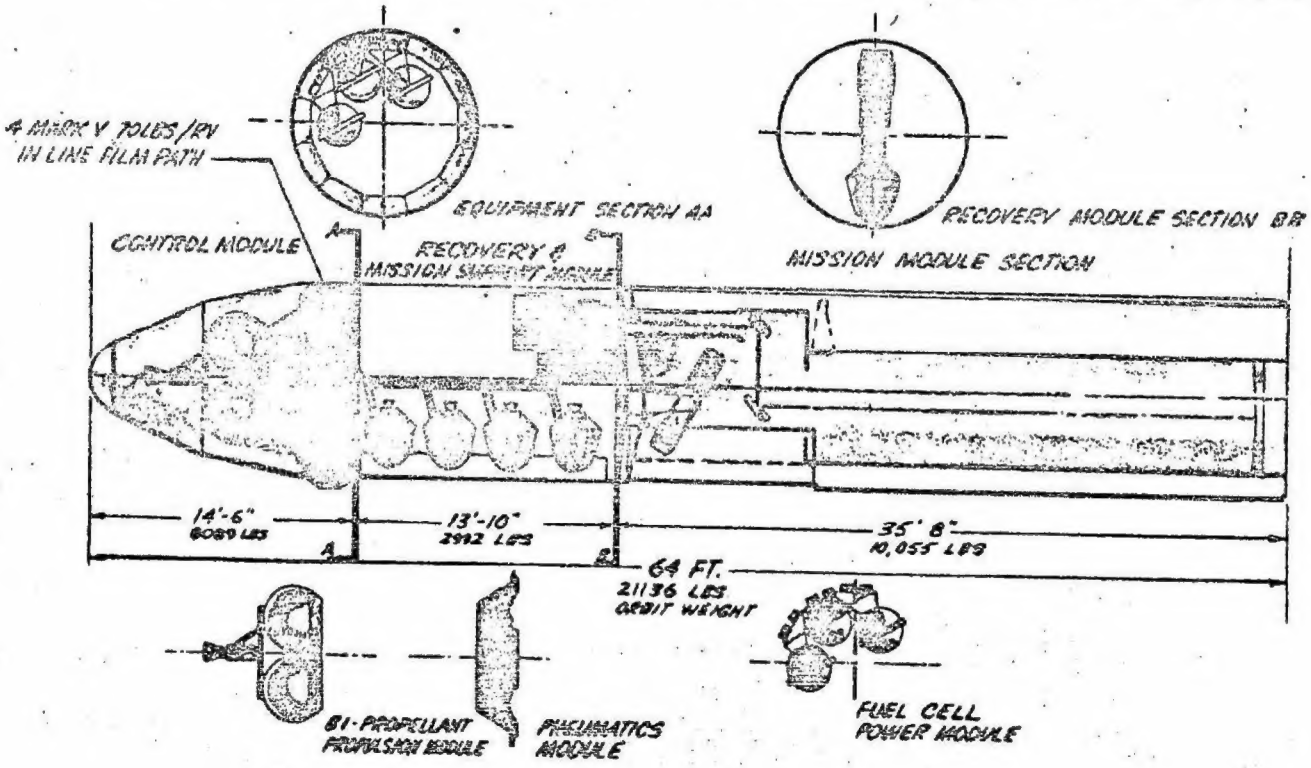
30 DAY DORIAN SYSTEM

TITAN IIID-5 SEGMENT BOOSTER - 97° INCLINATION, 70-170 N.M. ORBIT



~~SECRET~~ - SPECIAL HANDLING

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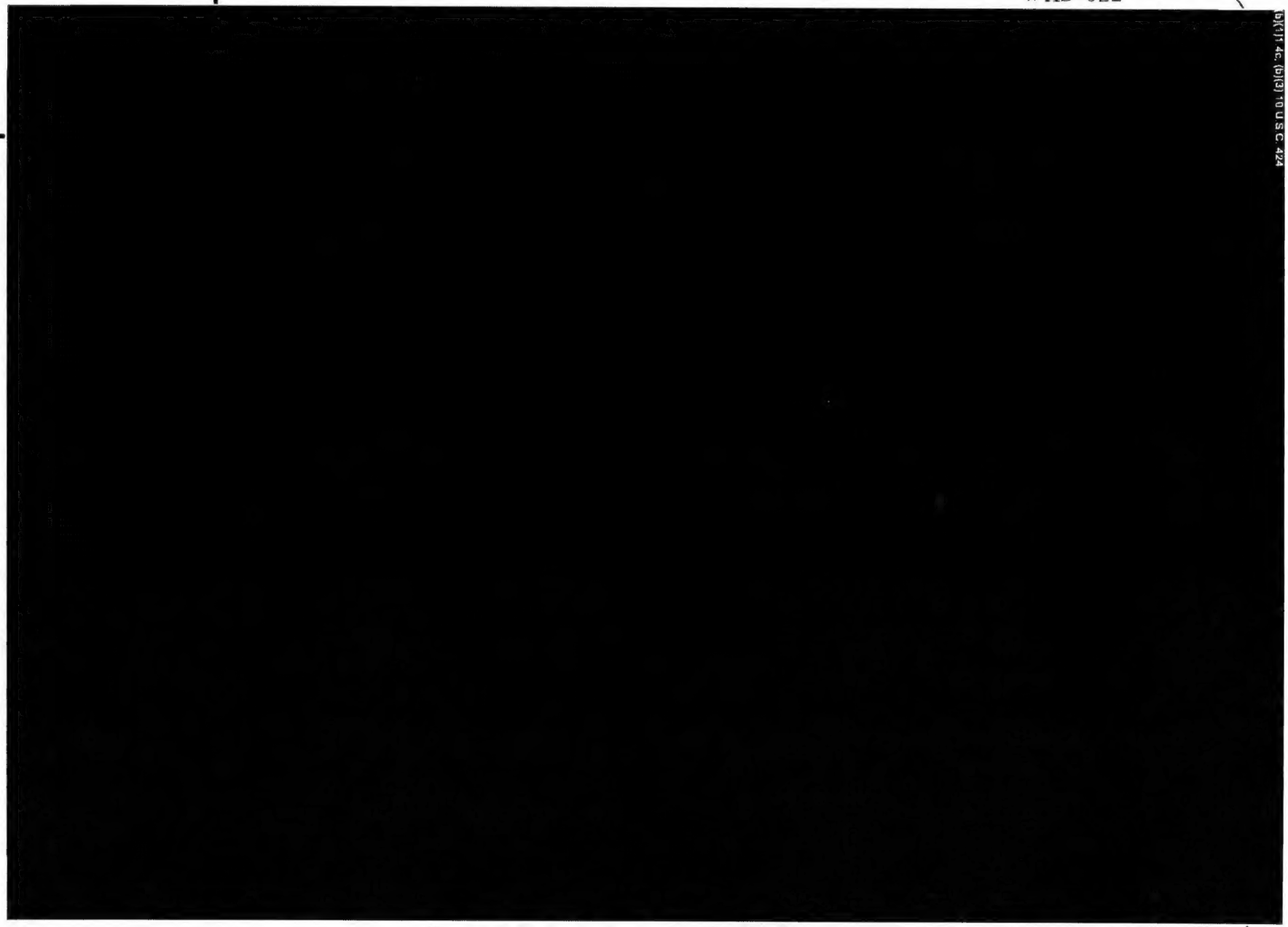
SECRET SPECIAL HANDLING WHS-022



(b)(1) 4c, (b)(3) 10 U.S.C. 424

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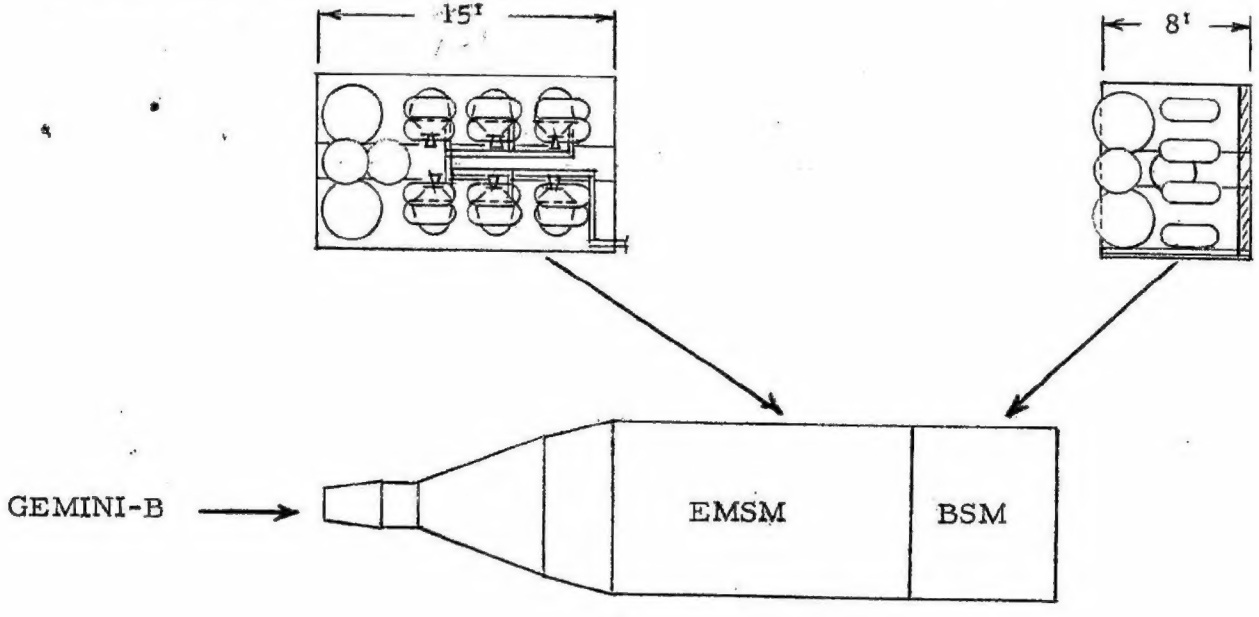
RENDEZVOUS/RESUPPLY VEHICLE

EXTENDED MISSION SERVICE MODULE

- AUTOMATIC MODE VEHICLE SERVICE MODULE
- ADD CRYOGENIC TANKS, FUEL CELLS, AND PROPULSION SYSTEM
- ADD CREW TRANSFER TUNNEL

BASELINE SERVICE MODULE

- BASELINE VEHICLE UNPRESSURIZED SECTION
- ADD DOCKING HARDWARE



- LAUNCH WEIGHT 30, 800 LBS

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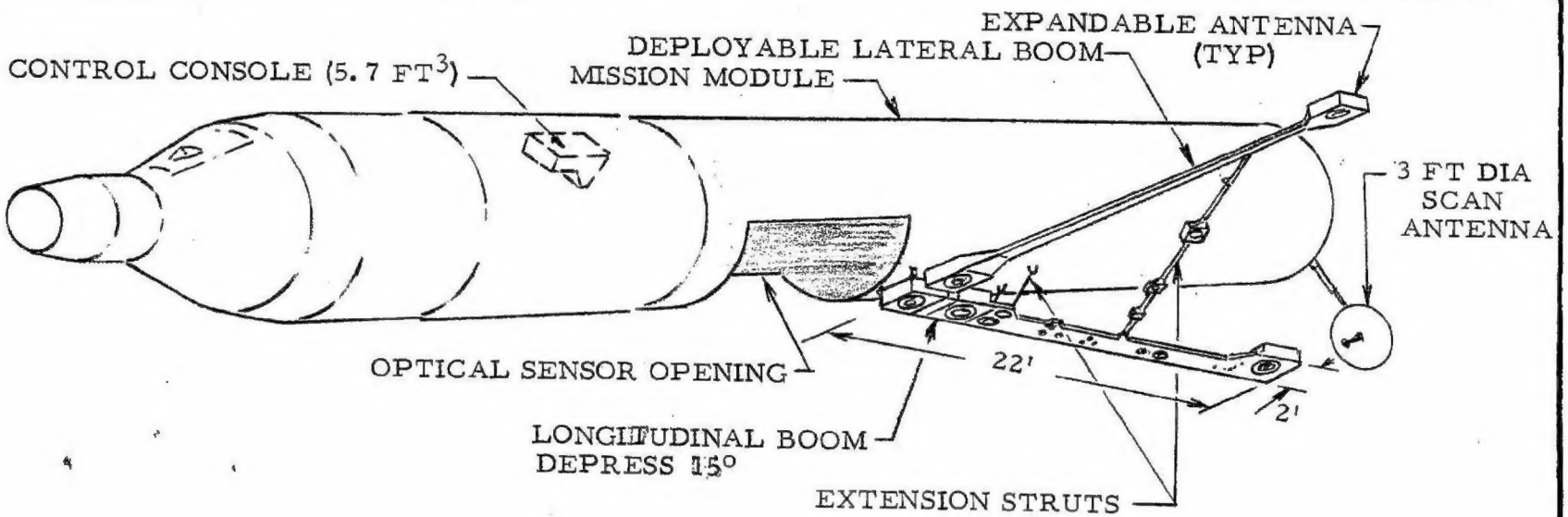
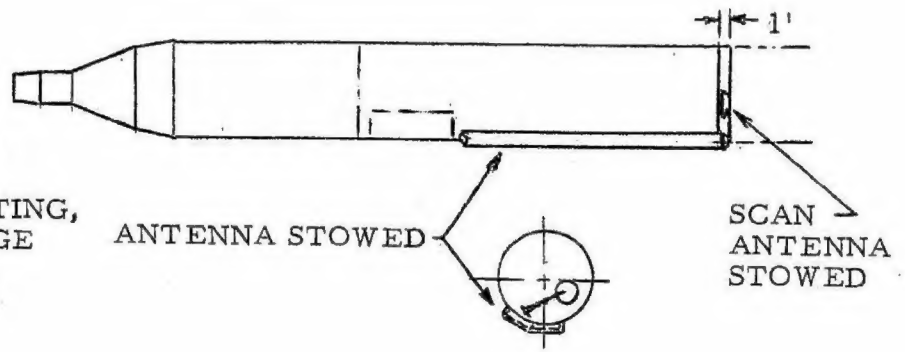
TYPICAL ELINT INSTALLATION



INSTALLATION CHARACTERISTICS

- HARDWARE WEIGHT INCLUDING STRUCTURE - 480#
- POWER PENALTY - 250 WATTS OPERATING, 25 WATTS AVERAGE
- DUTY CYCLE -10% ORBITAL DURATION
- DEPLOYMENT CYCLE - 100%
- PROPULSION PENALTY - 1 FPS/DAY



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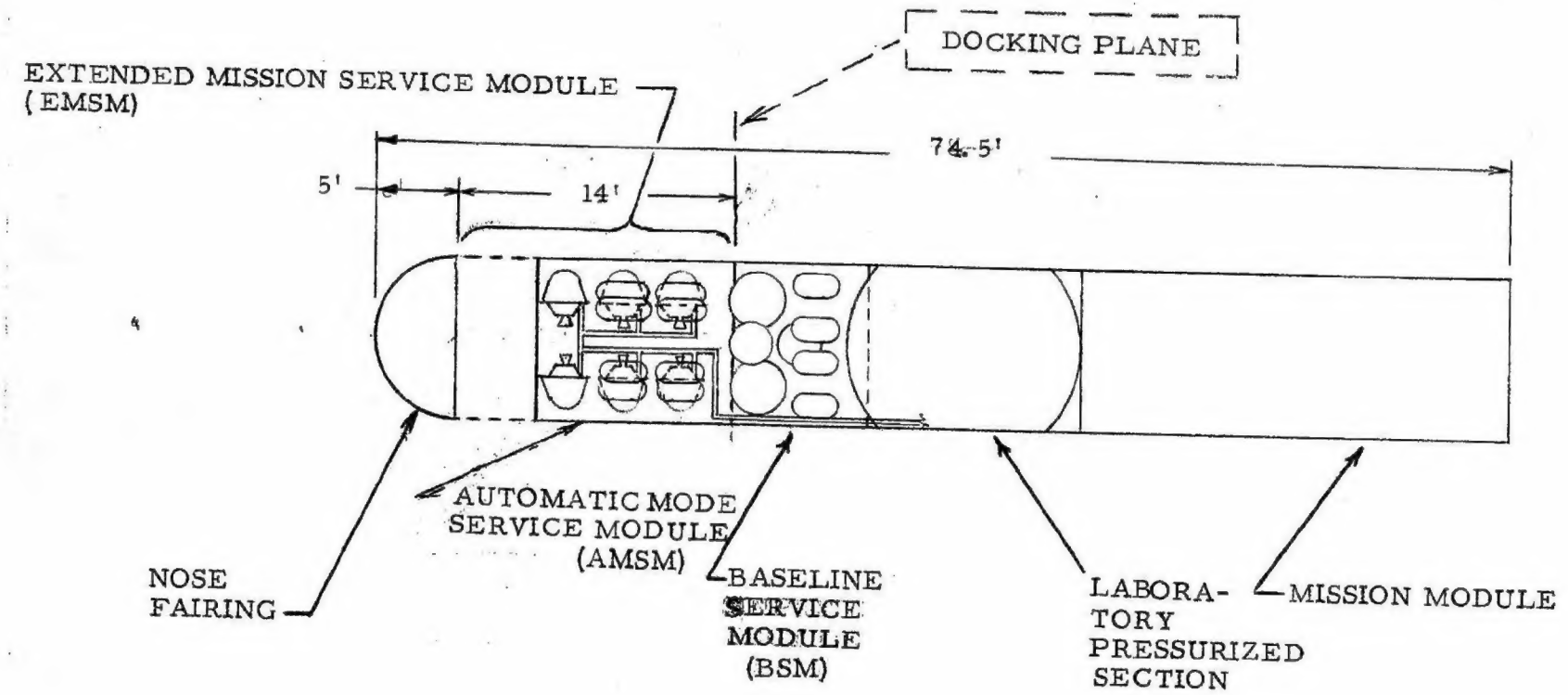
MOL AUTOMATIC MODE/RENDEZVOUS AUTOMATIC MODE VEHICLE



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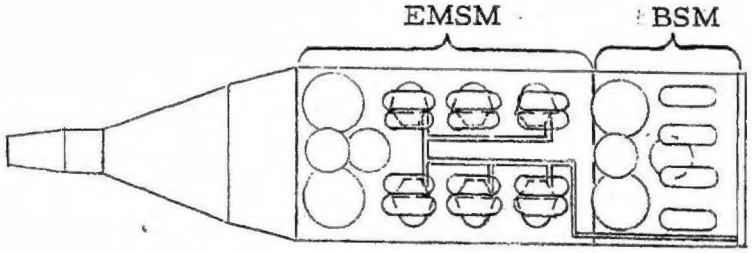
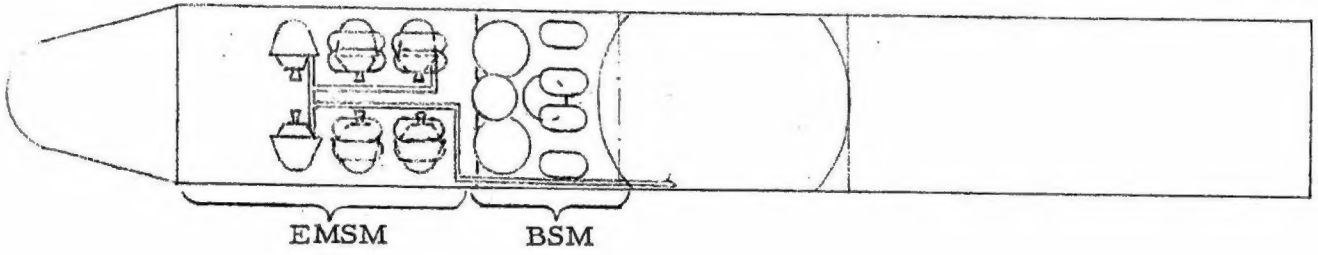
RENDEZVOUS VEHICLE FAMILY

- RENDEZVOUS/RESUPPLY VEHICLE (RRV)



- RENDEZVOUS/AUTOMATIC MODE VEHICLE (RAMV)



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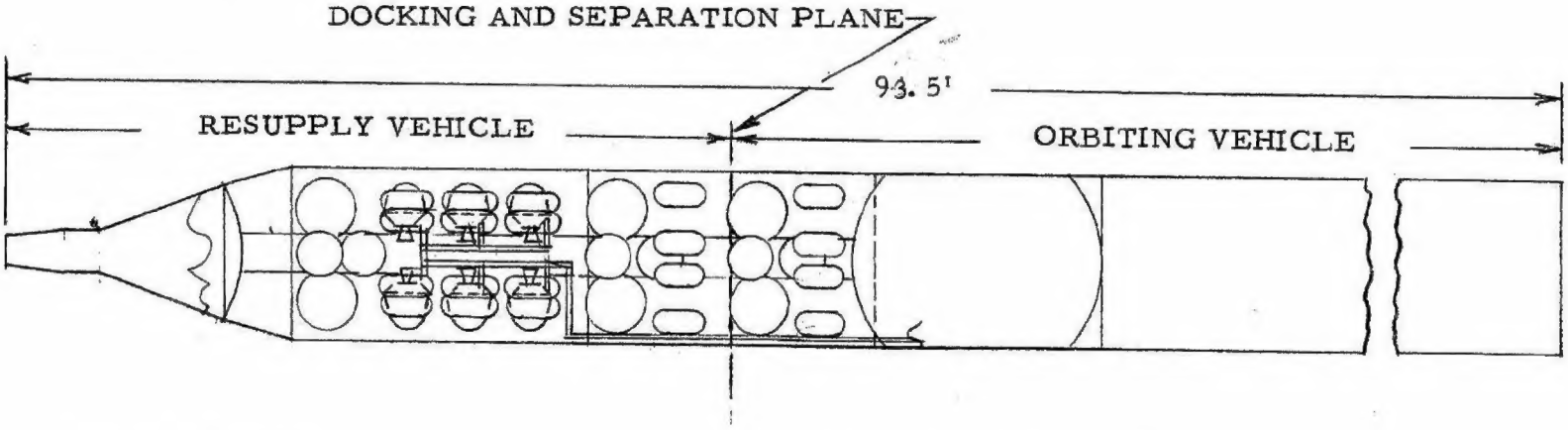
RENDEZVOUS VEHICLE CONFIGURATION

- ONE YEAR ORBITING VEHICLE OPERATION
- 60 DAY RESUPPLY CYCLE



RRV FUNCTIONS

- ATTITUDE CONTROL (ACTS PROPULSION)
- PRIME POWER SYSTEM
- LIFE SUPPORT EXPENDABLES
- DATA SYSTEM

RAMV FUNCTIONS

- LIFE SUPPORT SYSTEM
- ATTITUDE CONTROL ELECTRONICS
- COMMUNICATIONS AND DATA HANDLING
- ENVIRONMENTAL CONTROL

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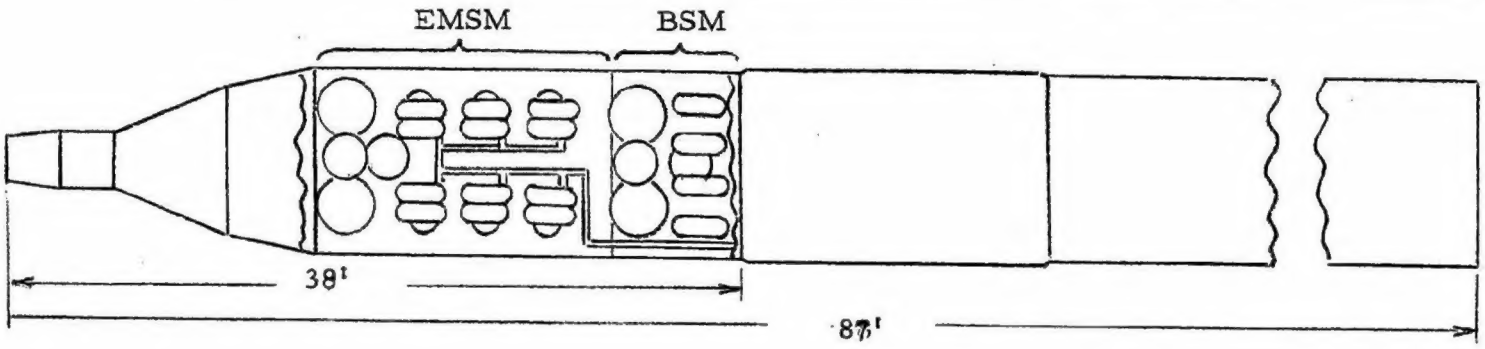
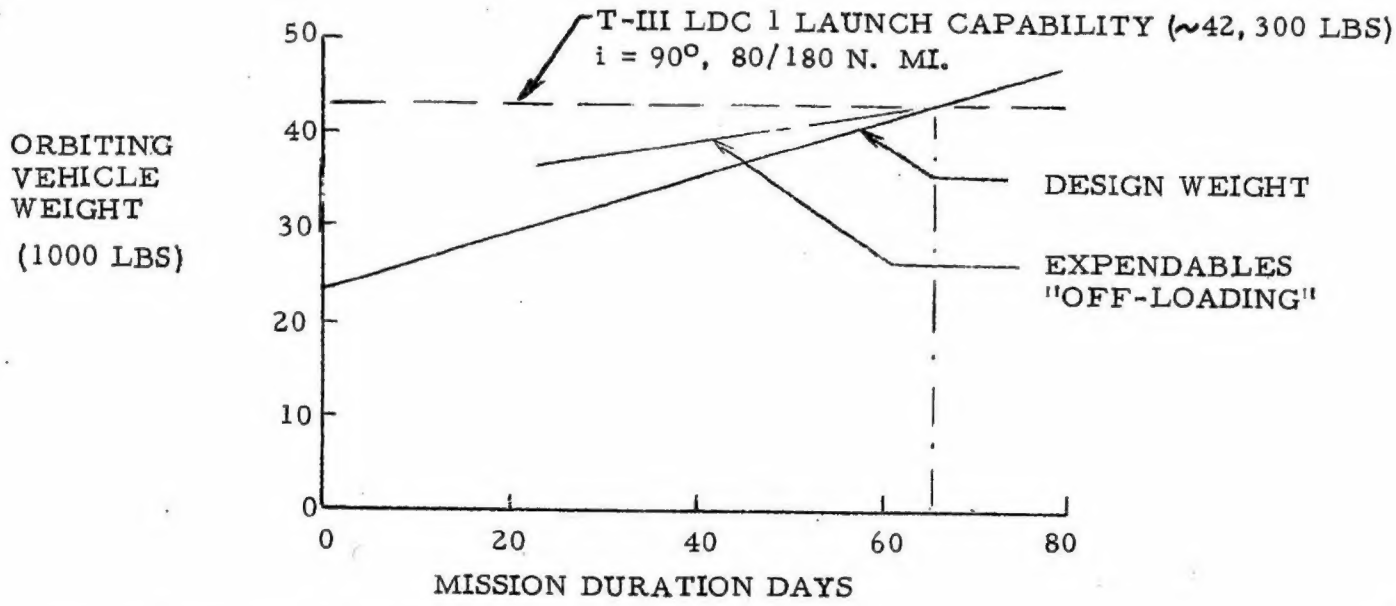
T-III LDC 1 GROWTH
INTEGRAL LAUNCH



- TYPICAL 60 DAY VEHICLE WGT. = 41,000 LBS



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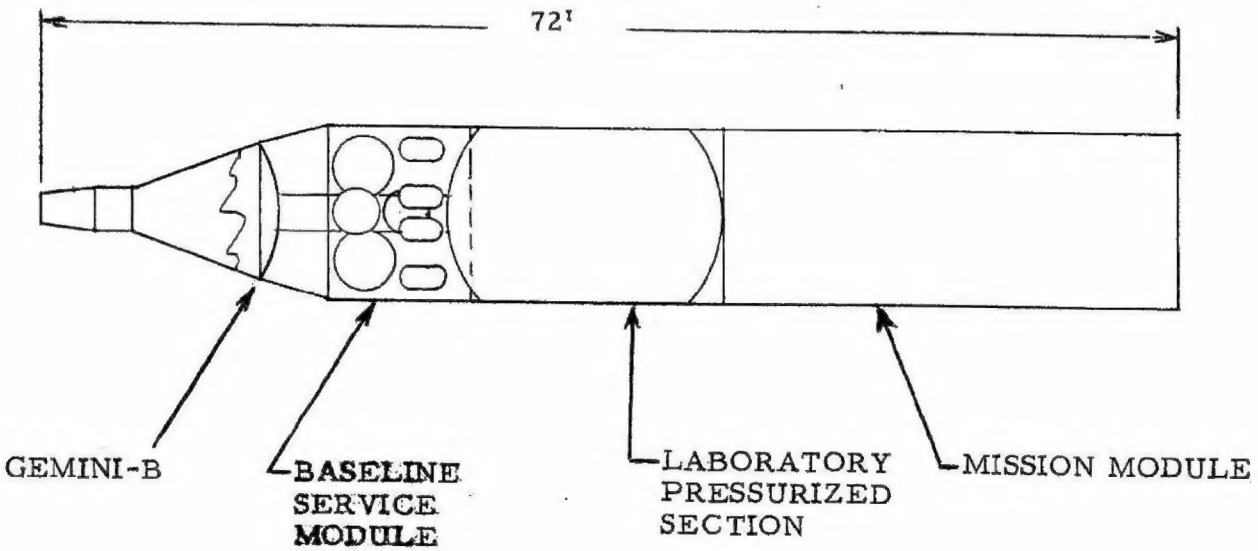
MOL BASELINE VEHICLE